

John M Nichol

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

877
citations

567281

15
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-noise spectroscopy of Si/SiGe quantum dots via dynamically-decoupled exchange oscillations. Nature Communications, 2022, 13, 940.	12.8	42
2	Quantum information processing with semiconductor quantum dots. , 2022, , .		0
3	Floquet-enhanced spin swaps. Nature Communications, 2021, 12, 2142.	12.8	15
4	Adiabatic quantum state transfer in a semiconductor quantum-dot spin chain. Nature Communications, 2021, 12, 2156.	12.8	34
5	Protecting quantum information in quantum dot spin chains by driving exchange interactions periodically. Physical Review B, 2021, 103, .	3.2	10
6	Advances and opportunities in materials science for scalable quantum computing. MRS Bulletin, 2021, 46, 589-595.	3.5	9
7	Perspective on exchange-coupled quantum-dot spin chains. Applied Physics Letters, 2021, 119, .	3.3	10
8	Long-Distance Superexchange between Semiconductor Quantum-Dot Electron Spins. Physical Review Letters, 2021, 126, 017701.	7.8	18
9	Conditional teleportation of quantum-dot spin states. Nature Communications, 2020, 11, 3022.	12.8	22
10	Coherent Multispin Exchange Coupling in a Quantum-Dot Spin Chain. Physical Review X, 2020, 10, . Rapid High-Fidelity Spin-State Readout in $\langle \text{mml:math}$	8.9	21
11	$\text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \langle \text{mml:mi} \rangle \text{Si} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle / \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \langle \text{mml:mi} \rangle \text{Si} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle - \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \langle \text{mml:mi} \rangle \text{Ge} \langle \text{mml:mi} \rangle$	3.8	44
12	Low-frequency charge noise in Si/SiGe quantum dots. Physical Review B, 2019, 100, .	3.2	80
13	Coherent spin-state transfer via Heisenberg exchange. Nature, 2019, 573, 553-557.	27.8	71
14	Stabilization and manipulation of multispin states in quantum-dot time crystals with Heisenberg interactions. Physical Review B, 2019, 99, .	3.2	15
15	Readout of singlet-triplet qubits at large magnetic field gradients. Physical Review B, 2018, 98, .	3.2	25
16	Electron spin-flip correlations due to nuclear dynamics in driven GaAs double dots. Physical Review B, 2017, 95, .	3.2	5
17	High-fidelity entangling gate for double-quantum-dot spin qubits. Npj Quantum Information, 2017, 3, .	6.7	174
18	Quenching of dynamic nuclear polarization by spin-orbit coupling in GaAs quantum dots. Nature Communications, 2015, 6, 7682.	12.8	59

#	ARTICLE	IF	CITATIONS
19	Nanoscale Fourier-Transform Magnetic Resonance Imaging. <i>Physical Review X</i> , 2013, 3, .	8.9	27
20	Nanomechanical detection of nuclear magnetic resonance using a silicon nanowire oscillator. <i>Physical Review B</i> , 2012, 85, .	3.2	76
21	Controlling the nonlinearity of silicon nanowire resonators using active feedback. <i>Applied Physics Letters</i> , 2009, 95, 123116.	3.3	32
22	Displacement detection of silicon nanowires by polarization-enhanced fiber-optic interferometry. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	76
23	An anomaly in the isotopomer shift of the hyperfine spectrum of LiI. <i>Journal of Chemical Physics</i> , 2005, 123, 134321.	3.0	12